

NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNNNNN	NNN	III	CCC	NNNNNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFFFFFFFFFFFFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	III	CCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF
NNN	NNN	IIIIIIIIII	CCCCCCCCCCCC	NNN	NNN	FFF

```
CCCCCCCC  NN      NN  FFFFFFFFFF  IIIIII  NN      NN  TTTTTTTTTT  RRRRRRRR  PPPPPPPP  TTTTTTTTTT
CCCCCCCC  NN      NN  FFFFFFFFFF  IIIIII  NN      NN  TTTTTTTTTT  RRRRRRRR  PPPPPPPP  TTTTTTTTTT
CC         NN      NN  FF          II      NN      NN  TT          RR      RR  PP      PP  TT
CC         NN      NN  FF          II      NN      NN  TT          RR      RR  PP      PP  TT
CC         NNNN     NN  FF          II      NNNN     NN  TT          RR      RR  PP      PP  TT
CC         NNNN     NN  FF          II      NNNN     NN  TT          RR      RR  PP      PP  TT
CC         NN      NN  FFFFFFFFFF  II      NN      NN  TT          RRRRRRRR  PPPPPPPP  TT
CC         NN      NN  FFFFFFFFFF  II      NN      NN  TT          RRRRRRRR  PPPPPPPP  TT
CC         NN      NNNN  FF          II      NN      NNNN  TT          RR      RR  PP      PP  TT
CC         NN      NNNN  FF          II      NN      NNNN  TT          RR      RR  PP      PP  TT
CC         NN      NN  FF          II      NN      NN  TT          RR      RR  PP      PP  TT
CC         NN      NN  FF          II      NN      NN  TT          RR      RR  PP      PP  TT
CCCCCCCC  NN      NN  FF          IIIIII  NN      NN  TT          RR      RR  PP      PP  TT
CCCCCCCC  NN      NN  FF          IIIIII  NN      NN  TT          RR      RR  PP      PP  TT
```

```
LL         IIIIII  SSSSSSSS
LL         IIIIII  SSSSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SSSSSS
LL         II      SSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```



```
0001 0 %TITLE 'DECnet Ethernet Configurator Module'
0002 0 MODULE CNFINTRPT (
0003 0 LANGUAGE (BLISS32),
0004 0 IDENT = 'V04-000'
0005 0 ) =
0006 0
0007 0 *****
0008 0 *
0009 0 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0025 0 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 0 *
0027 0 *
0028 0 *****
0029 0
0030 0
0031 0 ++
0032 0 FACILITY: DECnet Configurator Module (NICONFIG)
0033 0
0034 0 ABSTRACT:
0035 0
0036 0 This module contains the routines for establishing, and breaking
0037 0 logical links to NICONFIG.
0038 0
0039 0 ENVIRONMENT: VAX/VMS Operating System
0040 0
0041 0 AUTHOR: Bob Grosso, CREATION DATE: 13-Oct-1982
0042 0
0043 0 MODIFIED BY:
0044 0
0045 0 V03-001 RPG0001 Bob Grosso 02-May-1983
0046 0 Ensure NICONFIG will die gracefully on Network Shutdown.
0047 0 --
0048 1 BEGIN
```

```
50 0049 1 %SBTTL 'Definitions'
51 0050 1
52 0051 1
53 0052 1 INCLUDE FILES:
54 0053 1
55 0054 1
56 0055 1 LIBRARY 'SYSS$LIBRARY:STARLET'; ! VMS common definitions
57 0056 1
58 0057 1 LIBRARY 'SHRLIB$:NET'; ! Network definitions
59 0058 1
60 0059 1 LIBRARY 'SHRLIB$:NMALIBRY'; ! NICE Code definitions
61 0060 1
62 0061 1 REQUIRE 'LIB$:CNFDEF.R32';
63 0152 1
64 0153 1 REQUIRE 'SRC$:CNFPREFIX.REQ';
65 0250 1
66 0251 1
67 0252 1
68 0253 1 BUILTIN functions
69 0254 1
70 0255 1
71 0256 1 BUILTIN
72 0257 1 INSQUE, ! INSQUE instruction
73 0258 1 REMQUE; ! REMQUE instruction
74 0259 1
75 0260 1
76 0261 1 Own storage
77 0262 1
78 0263 1
79 0264 1 OWN
80 0265 1 SI_IOSB : BBLOCK [8]; ! IO status block for
81 0266 1
82 0267 1
83 0268 1 TABLE OF CONTENTS:
84 0269 1
85 0270 1
86 0271 1 FORWARD ROUTINE
87 0272 1
88 0273 1 CNF$SOLICIT_INTERRUPT : NOVALUE, ! Solicit work items
89 0274 1 NET_INTERRUPT : NOVALUE, ! Action routine to receive first SET command
90 0275 1 OPEN_REQUEST_LINK : NOVALUE, ! Open incoming request logical link
91 0276 1 CNF$CLOSE_REQUEST_LINK : NOVALUE, ! Close request logical link
92 0277 1 SHUTDOWN : NOVALUE, ! Shut down receiver gracefully
93 0278 1 CNF$SOLICIT_REQUEST : NOVALUE, ! Perform a read on the logical link
94 0279 1 REQUEST_RECEIVED : NOVALUE, ! Accept incoming request record
95 0280 1
96 0281 1
97 0282 1
98 0283 1
99 0284 1 EXTERNAL REFERENCES:
100 0285 1
101 0286 1
102 0287 1 EXTERNAL ROUTINE
103 0288 1
104 0289 1 ! Module CNFMAIN
105 0290 1
106 0291 1 CNF$EXIT, ! Clean up and exit
```



```
: 107      0292 1      CNFSTRACE,      ! Log messages to log file
: 108      0293 1      CNF$LOG_DATA,    ! Log messages to log file
: 109      0294 1      CNF$GET_ZVM,      ! Get zeroed virtual memory
: 110      0295 1      CNF$FREE_VM,      ! Free virtual memory
: 111      0296 1
: 112      0297 1      ! Module CNFREQUES
: 113      0298 1
: 114      0299 1      CNF$DISABLE_SURVEIL : NOVALUE,      ! Discontinue surveillance on specified circuit
: 115      0300 1      CNF$PROCESS_REQUEST : NOVALUE,      ! Parse and perform requested function
: 116      0301 1
: 117      0302 1      ! Module CNFWORKQ
: 118      0303 1
: 119      0304 1      WKQ$ADD_WORK_ITEM, ! Add work to work queue
: 120      0305 1      WKQ$DO_WORK_ITEM;  ! Add work to work queue
: 121      0306 1
: 122      0307 1
: 123      0308 1      EXTERNAL LITERAL
: 124      0309 1
: 125      0310 1      CNF$_MAILBOX,      ! Mailbox error
: 126      0311 1      CNF$_CHAN,        ! Error assigning or deassigning channel
: 127      0312 1      CNF$_LINK,        ! Error on logical link
: 128      0313 1
: 129      0314 1      CNF$C_MAXMBXMSG,   ! Maximum mailbox message size
: 130      0315 1      CNF$C_SYNCH_EFN,   ! Synchronous event flag number
: 131      0316 1      CNF$C_ASYNCH_EFN;  ! Asynchronous event flag number
: 132      0317 1
: 133      0318 1
: 134      0319 1      EXTERNAL
: 135      0320 1
: 136      0321 1      CNF$A_MBXMSG : VECTOR [,BYTE], ! Mailbox message buffer
: 137      0322 1      CNF$W_NETCHAN : WORD, ! Channel opened to network
: 138      0323 1      CNF$W_MBXCHAN : WORD, ! Channel to mailbox
: 139      0324 1      CNF$B_SURVEILLANCE_SET, ! Boolean: mark if useful work is being accomplished
: 140      0325 1      CNF$G_LOGMASK : BITVECTOR [32], ! Logging control mask
: 141      0326 1      CNF$GQ_CIRSURLST : VECTOR [2], ! List of circuit under surveillance
: 142      0327 1      CNF$GQ_IRBLST : VECTOR [2]; ! Listhead for incoming links
: 143      0328 1
```

```
145 0329 1 %SBTTL 'CNF$SOLICIT_INTERRUPT Request network interrupts for Connect requests and Shutdown '  
146 0330 1 GLOBAL ROUTINE CNF$SOLICIT_INTERRUPT: NOVALUE =  
147 0331 1  
148 0332 1 ++  
149 0333 1 FUNCTIONAL DESCRIPTION:  
150 0334 1  
151 0335 1 Issue an asynchronous QIO on the associated mailbox  
152 0336 1 for the network channel in expectation of receiving  
153 0337 1 requests for connects, or Shutdown notification.  
154 0338 1 Called the first time from MAIN routine in user mode  
155 0339 1 and subsequent times from NET_INTERRUPT to execute in AST mode.  
156 0340 1  
157 0341 1 FORMAL PARAMETERS:  
158 0342 1 NONE  
159 0343 1  
160 0344 1 IMPLICIT INPUTS:  
161 0345 1  
162 0346 1 CNF$W_MBXCHAN Channel number for mailbox  
163 0347 1 CNF$A_MBXMSG Buffer for mailbox msg  
164 0348 1  
165 0349 1 IMPLICIT OUTPUTS:  
166 0350 1 NONE  
167 0351 1  
168 0352 1 ROUTINE VALUE:  
169 0353 1 COMPLETION CODES:  
170 0354 1  
171 0355 1 Errors are signalled  
172 0356 1  
173 0357 1 SIDE EFFECTS:  
174 0358 1 NONE  
175 0359 1  
176 0360 1 --  
177 0361 1  
178 0362 2 BEGIN  
179 0363 2  
180 0364 2 LOCAL  
181 0365 2 STATUS;  
182 0366 2  
183 0367 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),  
184 0368 2 $DESCRIPTOR('cnf$solicit_interrupt'));  
185 0369 2  
186 P 0370 2 STATUS = $QIO (  
187 P 0371 2 FUNC = IOS_READVBLK, ! Request read on mailbox  
188 P 0372 2 CHAN = .CNF$W_MBXCHAN, ! Use assigned channel  
189 P 0373 2 EFN = CNF$C_ASYNCH_EFN, ! Asynchronous Event flag number  
190 P 0374 2 IOSB = SI_IOSB, ! Interrupt request block  
191 P 0375 2 ASTADR = NET_INTERRUPT, ! AST routine to execute on read completion  
192 P 0376 2 P1 = CNF$A_MBXMSG, ! Buffer to contain mailbox message  
193 0377 2 P2 = CNF$C_MAXMBXMSG); ! Size maximum on mailbox message  
194 0378 2  
195 0379 2 IF NOT .STATUS  
196 0380 2 THEN ! report an error  
197 0381 2 SIGNAL (CNF$_MAILBOX, 0, .STATUS);  
198 0382 2  
199 0383 2 RETURN;  
200 0384 1 END; ! End routine CNF$SOLICIT_INTERRUPT
```



```

                                .TITLE  CNFINTRPT DECnet Ethernet Configurator Module
                                .IDENT   \V04-000\
                                .PSECT   $SPLITS,NOWRT,NOEXE,2
                                45  43  41  52  54  00000 P.AAB: .ASCII  \TRACE\
                                00005                .BLKB    3
                                00000005 00008 P.AAA: .LONG    5
                                00000000' 0000C .ADDRESS P.AAB
74  6E  69  5F  74  69  63  69  6C  6F  73  24  66  6E  63  00010 P.AAD: .ASCII  \cnf$solicit_interrupt\
74  70  75  72  72  65  0001F
                                00025                .BLKB    3
                                00000015 00028 P.AAC: .LONG    21
                                00000000' 0002C .ADDRESS P.AAD
                                .PSECT   $OWNS,NOEXE,2
                                00000 SI_IOSB: .BLKB    8
                                .EXTRN   CNF$EXIT, CNF$TRACE
                                .EXTRN   CNF$LOG_DATA, CNF$GET_ZVM
                                .EXTRN   CNF$FREE_VM, CNF$DISABLE_SURVEIL
                                .EXTRN   CNF$PROCESS_REQUEST
                                .EXTRN   WKQ$ADD_WORK_ITEM
                                .EXTRN   WKQ$DO_WORK_ITEM
                                .EXTRN   CNF$_MAILBOX, CNF$_CHAN
                                .EXTRN   CNF$_LINK, CNF$_C_MAXMBXMSG
                                .EXTRN   CNF$_SYNCH_EFN
                                .EXTRN   CNF$_ASYNCH_EFN
                                .EXTRN   CNF$_MBXMSG, CNF$_NETCHAN
                                .EXTRN   CNF$_MBXCHAN, CNF$_B_SURVEILLANCE_SET
                                .EXTRN   CNF$_GC_LOGMASK, CNF$_GQ_CIRSURLST
                                .EXTRN   CNF$_GQ_IRBLST, SYS$QIO
                                .PSECT   $CODE$,NOWRT,2
                                0000 00000
                                0000' CF 9F 00002
                                0000' CF 9F 00006
                                0000G CF 01 DD 0000A
                                0000G CF 03 FB 0000C
                                0000G CF 7E 7C 00011
                                0000G CF 7E 7C 00013
                                0000G CF 8F DD 00015
                                0000G CF 9F 0001B
                                0000V CF 7E D4 0001F
                                0000' CF 9F 00021
                                0000' CF 9F 00025
                                0000G CF 31 DD 00029
                                0000G CF 7E 3C 0002B
                                0000G CF 8F DD 00030
                                0000G 00 0C FB 00036
                                0000G 11 50 EB 0003D
                                0000G 50 DD 00040
                                0000G 7E D4 00042
                                0000G 8F DD 00044
                                .ENTRY   CNF$SOLICIT_INTERRUPT, Save nothing
                                PUSHAB   P.AAC
                                PUSHAB   P.AAA
                                PUSHL    #1
                                CALLS    #3, CNF$TRACE
                                CLRQ     -(SP)
                                CLRQ     -(SP)
                                PUSHL    #CNF$_C_MAXMBXMSG
                                PUSHAB   CNF$_MBXMSG
                                CLRL     -(SP)
                                PUSHAB   NET_INTERRUPT
                                PUSHAB   SI_IOSB
                                PUSHL    #49
                                MOVZWL   CNF$_MBXCHAN, -(SP)
                                PUSHL    #CNF$_C_ASYNCH_EFN
                                CALLS    #12, SYS$QIO
                                BLBS     STATUS, 1$
                                PUSHL    STATUS
                                CLRL     -(SP)
                                PUSHL    #CNF$_MAILBOX
                                0330
                                0368
                                0367
                                0377
                                0379
                                0381
```

CNFINTRPT
V04-000

DECnet Ethernet Configurator Module

CNF\$SOLICIT_INTERRUPT

Request network interr

L 9
16-Sep-1984 02:03:38
14-Sep-1984 12:49:50

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFINTRPT.B32;1

Page 6
(3)

00000000G 00

03 FB 0004A

04 00051 1\$:

CALLS

#3, LIB\$SIGNAL

RET

; 0384

; Routine Size: 82 bytes, Routine Base: \$CODE\$ + 0000


```
202 0385 1 XSBTTL 'net_interrupt Process Net interrupts for Shutdown or Connect Request'
203 0386 1 ROUTINE NET_INTERRUPT : NOVALUE =
204 0387 1
205 0388 1 !++
206 0389 1
207 0390 1 This AST routine is called when the outstanding QIO
208 0391 1 on the associated mailbox completes. If the interrupt
209 0392 1 indicates a connect is pending, then the acceptance
210 0393 1 routine is added to the work queue.
211 0394 1
212 0395 1 !--
213 0396 1
214 0397 2 BEGIN
215 0398 2 BIND
216 0399 2 MESSAGE_TYPE = CNF$A_MBXMSG [0] : BYTE; ! First byte contains code for message type
217 0400 2
218 0401 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
219 0402 2 $DESCRIPTOR ('Net_interrupt'));
220 0403 2
221 0404 2
222 0405 2 ! Check message type. If connect request, then connect and wait
223 0406 2 for a set. Anything else is bad news.
224 0407 2
225 0408 2 SELECTONEU .MESSAGE_TYPE OF
226 0409 2 SET
227 0410 2
228 0411 2 [MSG$_NETSHUT]: ! Network shutting down
229 0412 2
230 0413 2 BEGIN
231 0414 2 WKQ$ADD WORK_ITEM(SHUTDOWN); ! Shut down receiver gracefully
232 0415 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
233 0416 2 $DESCRIPTOR ('Net_interrupt - Network shutting down'));
234 0417 2 RETURN; ! Do not re-issue mailbox read
235 0418 2 END;
236 0419 2
237 0420 2
238 0421 2 [MSG$_CONNECT]: ! Incoming connect request
239 0422 2 BEGIN
240 0423 2 LOCAL
241 0424 2 PTR,LEN,
242 0425 2 IRB: REF BBLOCK; ! Incoming Request Block
243 0426 2
244 0427 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
245 0428 2 $DESCRIPTOR ('Net_interrupt - Connect request received'));
246 0429 2
247 0430 2 LEN = IRB$C_LENGTH;
248 0431 2 CNF$GET_ZVM(LEN,IRB); ! Allocate incoming request block
249 0432 2 IRB [IRB$W_SIZE] = IRB$C_LENGTH; ! Set length of block
250 0433 2 PTR = 5 + .CNF$A_MBXMSG - [4]; ! Get index of start of ascic data
251 0434 2 IRB [IRB$B_NCBLEN] = .CNF$A_MBXMSG [.PTR]; ! Set length of NCB
252 0435 2 CH$COPY (.CNF$A_MBXMSG [.PTR], CNF$A_MBXMSG [.PTR+1],
253 0436 2 0, IRB$C_MAXNCBLEN, IRB [IRB$T_NCB]);
254 0437 2 IRB [IRB$B_BNR_FLINK] = IRB [IRB$B_BNR_FLINK]; ! Initialize list for Buffered NICE Messages
255 0438 2 IRB [IRB$B_BNR_BLINK] = IRB [IRB$B_BNR_FLINK];
256 0439 2 INSQUE (.IRB, .CNF$GQ_IRBLST [1]); ! Insert into list
257 0440 2
258 0441 2 WKQ$ADD_WORK_ITEM(OPEN_REQUEST_LINK,.IRB); ! Queue the connect accept
```

```
259 0442 2      END;
260 0443 2
261 0444 2      [OTHERWISE]:
262 0445 2      BEGIN
263 0446 2      CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE *** ERROR'),
264 0447 2      $DESCRIPTOR('Net_interrupt - Unprocessed Interrupt'));
265 0448 2      END;
266 0449 2
267 0450 2      TES;
268 0451 2
269 0452 2      CNF$SOLICIT_INTERRUPT();          ! Issue another read on mailbox
270 0453 2
271 0454 2      CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
272 0455 2      $DESCRIPTOR('Net_interrupt - Interrupt dispatched, another solicited'));
273 0456 2
274 0457 2      RETURN;
275 0458 1      END;          ! Routine net_interrupt
```

```
                                .PSECT $SPLIT$,NOWRT,NOEXE,2
                                45 43 41 52 54 00030 P.AAF: .ASCII \TRACE\
                                00035 .BLKB 3
                                00000005 00038 P.AAE: .LONG 5
                                00000000' 0003C P.AAH: .ADDRESS P.AAF
                                74 70 75 72 72 65 74 6E 49 5F 74 65 4E 00040 P.AAH: .ASCII \Net_interrupt\
                                0004D .BLKB 3
                                0000000D 00050 P.AAG: .LONG 13
                                00C00000' 00054 P.AAH: .ADDRESS P.AAH
                                45 43 41 52 54 00058 P.AAJ: .ASCII \TRACE\
                                0005D .BLKB 3
                                00000005 00060 P.AAI: .LONG 5
                                00000000' 00064 P.AAJ: .ADDRESS P.AAJ
                                2D 20 74 70 75 72 72 65 74 6E 49 5F 74 65 4E 00068 P.AAL: .ASCII \Net_interrupt - Network shutting down\
                                69 74 74 75 68 73 20 6B 72 6F 77 74 65 4E 20 00077
                                6E 77 6F 64 20 67 6E 00086
                                0008D .BLKB 3
                                00000025 00090 P.AAK: .LONG 37
                                00000000' 00094 P.AAL: .ADDRESS P.AAL
                                45 43 41 52 54 00098 P.AAN: .ASCII \TRACE\
                                0009D .BLKB 3
                                00000005 000A0 P.AAM: .LONG 5
                                00000000' 000A4 P.AAN: .ADDRESS P.AAN
                                2D 20 74 70 75 72 72 65 74 6E 49 5F 74 65 4E 000A8 P.AAP: .ASCII \Net_interrupt - Connect request received\
                                73 65 75 71 65 72 20 74 63 65 6E 6E 6F 43 20 000B7
                                64 65 76 69 65 63 65 72 20 74 000C6
                                00000028 000D0 P.AAO: .LONG 40
                                00000000' 000D4 P.AAP: .ADDRESS P.AAP
                                52 4F 52 52 45 20 2A 2A 2A 20 45 43 41 52 54 000D8 P.AAR: .ASCII \TRACE *** ERROR\
                                000E7 .BLKB 1
                                0000000F 000E8 P.AAQ: .LONG 15
                                00000000' 000EC P.AAR: .ADDRESS P.AAR
                                2D 20 74 70 75 72 72 65 74 6E 49 5F 74 65 4E 000F0 P.AAT: .ASCII \Net_interrupt - Unprocessed Interrupt\
                                6E 49 20 64 65 73 73 65 63 6F 72 70 6E 55 20 000FF
                                74 70 75 72 72 65 74 0010E
                                00115 .BLKB 3
```



```
00000025 00118 P.AAS: .LONG 37
00000000' 0011C .ADDRESS P.AAT
45 43 41 52 54 00120 P.AAV: .ASCII \TRACE\
00125 .BLKB 3
00000005 00128 P.AAU: .LONG 5
00000000' 0012C .ADDRESS P.AAV
2D 20 74 70 75 72 72 65 74 6E 49 5F 74 65 4E 00130 P.AAX: .ASCII \Net_Interrupt - Interrupt dispatched, an\
70 73 69 64 20 74 70 75 72 72 65 74 6E 49 20 0013F
64 65 74 69 63 69 6C 6F 73 20 72 65 68 63 74 61 0014E
00158 .ASCII \other solicited\
00167 .BLKB 1
00000037 00168 P.AAW: .LONG 55
00000000' 0016C .ADDRESS P.AAX
```

.PSECT \$CODE\$,NOWRT,2

03FC 00000 NET_INTERRUPT:

```
.WORD Save R2,R3,R4,R5,R6,R7,R8,R9 0386
MOVAB CNF$TRACE, R9
MOVAB MESSAGE_TYPE, R8
MOVAB P.AAG, R7
SUBL2 #8, SP
PUSHL R7 0402
PUSHAB P.AAE 0401
PUSHL #1
CALLS #3, CNF$TRACE
MOVZBL MESSAGE_TYPE, R0 0408
CMPB R0, #59 0411
BNEQ 1$
PUSHAB SHUTDOWN 0414
CALLS #1, WKQ$ADD_WORK_ITEM
PUSHAB P.AAK 0416
PUSHAB P.AAI 0415
BRB 4$
CMPB R0, #50 0421
BNEQ 2$
PUSHAB P.AAO 0428
PUSHAB P.AAM 0427
PUSHL #1
CALLS #3, CNF$TRACE
MOVZWL #351, LEN 0430
PUSHL SP 0431
PUSHAB LEN
CALLS #2, CNF$GET_ZVM
MOVL IRB, R6 0432
MOVW #351, 8(R6)
MOVZBL CNF$A_MBXMSG+4, PTR 0433
ADDL2 #5, PTR
MOVW CNF$A_MBXMSG[PTR], 36(R6) 0434
MOVZBL CNF$A_MBXMSG[PTR], R1 0435
MOVC5 R1, CNF$A_MBXMSG+1[PTR], #0, #64, 37(R6) 0436
MOVAB 20(R6), 20(R6) 0437
MOVAB 20(R6), 24(R6) 0438
INSQUE (R6), @CNF$GQ_IRBLST+4 0439
```

		0000V	6E DD 0008B	PUSHL IRB	: 0441
0000G	CF		CF 9F 0008D	PUSHAB OPEN REQUEST_LINK	: :
			02 FB 00091	CALLS #2, WKQ\$ADD_WORK_ITEM	: :
		00C8	0D 11 00096	BRB 3\$: 0408
		0098	C7 9F 00098 2\$:	PUSHAB P.AAS	: 0447
			C7 9F 0009C	PUSHAB P.AAQ	: 0446
			01 DD 000A0	PUSHL #1	: :
FF04	69		03 FB 000A2	CALLS #3, CNF\$TRACE	: :
	CF		00 FB 000A5 3\$:	CALLS #0, CNF\$SOLICIT_INTERRUPT	: 0452
		0118	C7 9F 000AA	PUSHAB P.AAW	: 0455
		00D8	C7 9F 000AE	PUSHAB P.AAU	: 0454
			01 DD 000B2 4\$:	PUSHL #1	: :
	69		03 FB 000B4	CALLS #3, CNF\$TRACE	: :
			04 000B7	RET	: 0458

; Routine Size: 184 bytes, Routine Base: \$CODE\$ + 0052


```

277 0459 1 %SBTTL 'open_request_link'
278 0460 1 ROUTINE OPEN_REQUEST_LINK (IRB): NOVALUE =
279 0461 1
280 0462 1 ----
281 0463 1
282 0464 1 Open the logical link for incoming request records.
283 0465 1 Executed off the work queue.
284 0466 1
285 0467 1 Inputs:
286 0468 1
287 0469 1 irb = Address of incoming request block
288 0470 1
289 0471 1 Outputs:
290 0472 1
291 0473 1 routine = True if link established, false if not
292 0474 1 ----
293 0475 1
294 0476 2 BEGIN
295 0477 2
296 0478 2 MAP
297 0479 2 IRB: REF BBLOCK; ! Address of request block
298 0480 2
299 0481 2 LOCAL
300 0482 2 STATUS,
301 0483 2 PTR,
302 0484 2 NCB_DESC: VECTOR [2]; ! Descriptor of NCB
303 0485 2
304 0486 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
305 0487 2 $DESCRIPTOR('open_request_link'));
306 0488 2
307 0489 2
308 0490 2 Setup NCB for connect accept
309 0491 2
310 0492 2
311 0493 2 NCB_DESC [0] = .IRB [IRB$B_NCBLEN]; ! Get length of requestor ncb
312 0494 2 NCB_DESC [1] = IRB [IRB$T_NCB]; ! and address of ncb
313 0495 2
314 0496 2
315 0497 2 Get copy of NCB up to slash to enable its use in error reporting
316 0498 2
317 0499 2
318 0500 2 PTR = CH$FIND_CH (.IRB [IRB$B_NCBLEN], IRB [IRB$T_NCB], '/');
319 0501 2
320 0502 2 IF NOT CH$FAIL (.PTR) ! If ending slash found,
321 0503 2 THEN
322 0504 2 IRB [IRB$B_NCBLEN] = .PTR - IRB [IRB$T_NCB]; ! then truncate rest of junk
323 0505 2
324 0506 2
325 0507 2 Setup NCB for accept by zeroing optional data sent by requestor
326 0508 2
327 0509 2
328 0510 2 (.PTR+3) <0,8> = 0; ! Zero optional data
329 0511 2
330 P 0512 2 STATUS = $ASSIGN (DEVNAM = %ASCII 'NET:', ! Get channel for incoming link
331 0513 2 CHAN = IRB [IRB$W_CHAN]);
332 0514 2
333 0515 2 IF NOT .STATUS ! If error assigning channel,
```



```

334 0516 2 THEN
335 0517 BEGIN
336 0518 SIGNAL (CNF$ CHAN, 0, .STATUS);
337 0519 CNF$CLOSE_REQUEST_LINK(.IRB);
338 0520 RETURN;
339 0521 END;
340 0522
341 P 0523 STATUS = $QIOW(FUNC = IOS$ ACCESS,
342 P 0524 CHAN = .IRB [IRB$W CHAN],
343 P 0525 EFN = CNF$C SYNCH_EFN,
344 P 0526 IOSB = IRB [IRB$W IOSB],
345 P 0527 P2 = NCB_DESC);
346 0528
347 0529 IF .STATUS
348 0530 THEN
349 0531 STATUS = .IRB [IRB$W IOSB];
350 0532
351 0533 IF NOT .STATUS
352 0534 THEN
353 0535 BEGIN
354 0536 SIGNAL (CNF$ LINK, 0, .STATUS);
355 0537 CNF$CLOSE_REQUEST_LINK(.IRB);
356 0538 RETURN;
357 0539 END;
358 0540
359 0541 CNF$SOLICIT_REQUEST (.IRB);
360 0542
361 0543
362 0544 1 END;

```

```

! then report the error
! and deallocate the storage

```

```

! Accept the logical link

```

```

! Address of I/O status block
! Address of network control block

```

```

! If successfully submitted,

```

```

! then pick up QIO final status

```

```

! If error starting up link

```

```

! then report the error
! and deallocate the storage

```

```

! Issue a QIO for an incoming request record

```

```

! End routine open_request_link

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2

```

```

45 43 41 52 54 00170 P.AAZ: .ASCII \TRACE\
00175 .BLKB 3
00000005 00178 P.AAY: .LONG 5
00000000 0017C .ADDRESS P.AAZ
69 6C 5F 74 73 65 75 71 65 72 5F 6E 65 70 6F 00180 P.ABB: .ASCII \open_request_link\
6B 6E 0018F
00191 .BLKB 3
00000011 00194 P.ABA: .LONG 17
00000000 00198 .ADDRESS P.ABB
00 00 00 3A 54 45 4E 5F 0019C P.ABD: .ASCII \_NET:\<0><0><0>
010E0005 001A4 P.ABC: .LONG 17694725
00000000 001A8 .ADDRESS P.ABD

.EXTRN SYSS$ASSIGN, SYSS$QIOW

.PSECT $CODE$,NOWRT,2

000C 0000 OPEN_REQUEST LINK:
5E 08 C2 00002 .WORD Save R2,R3
0000 CF 9F 00005 .SUBL2 #8, SP
0000 CF 9F 00009 .PUSHAB P.ABA
01 DD 0000D .PUSHAB P.AAY
. PUSHL #1

```

```

: 0460
: 0487
: 0486
:

```


0000G	CF	03	FB	0000F	CALLS	#3, CNF\$TRACE	
	52	04	AC	D0 00014	MOVL	IRB, R2	0493
	6E	24	A2	98 00018	CVTBL	36(R2), NCB_DESC	
04	AE	25	A2	9E 0001C	MOVAB	37(R2), NCB_DESC+4	0494
	50	24	A2	98 00021	CVTBL	36(R2), R0	0500
25	50		2F	3A 00025	LOCC	#47, R0, 37(R2)	
			02	12 0002A	BNEQ	1\$	
			51	D4 0002C	CLRL	R1	
			51	D5 0002E	TSTL	PTR	0502
			09	13 00030	BEQL	2\$	
	50	25	A2	9E 00032	MOVAB	37(R2), R0	0504
24	51		50	83 00036	SUBB3	R0, PTR, 36(R2)	
		03	A1	94 0003B	CLRB	3(PTR)	0510
			7E	7C 0003E	CLRQ	-(SP)	0513
		0A	A2	9F 00040	PUSHAB	10(R2)	
		0000	CF	9F 00043	PUSHAB	P.ABC	
00000000G	00		04	FB 00047	CALLS	#4, SYSS\$ASSIGN	
	53		50	D0 0004E	MOVL	R0, STATUS	
	0C		53	E8 00051	BLBS	STATUS, 3\$	0515
			53	DD 00054	PUSHL	STATUS	0518
			7E	D4 00056	CLRL	-(SP)	
		00000000G	8F	DD 00058	PUSHL	#CNF\$_CHAN	
			38	11 0005E	BRB	5\$	
			7E	7C 00060	CLRQ	-(SP)	0527
			7E	7C 00062	CLRQ	-(SP)	
		10	AE	9F 00064	PUSHAB	NCB_DESC	
			7E	7C 00067	CLRQ	-(SP)	
			7E	D4 00069	CLRL	-(SP)	
		0C	A2	9F 0006B	PUSHAB	12(R2)	
			32	DD 0006E	PUSHL	#50	
	7E	0A	A2	32 00070	CVTWL	10(R2), -(SP)	
00000000G	00	00000000G	8F	DD 00074	PUSHL	#CNF\$_SYNCH_EFN	
	53		0C	FB 0007A	CALLS	#12, SYSS\$QIO	
	07		50	D0 00081	MOVL	R0, STATUS	
	53		53	E9 00084	BLBC	STATUS, 4\$	0529
	19	0C	A2	32 00087	CVTWL	12(R2), STATUS	0531
			53	E8 0008B	BLBS	STATUS, 6\$	0533
			53	DD 0008E	PUSHL	STATUS	0536
			7E	D4 00090	CLRL	-(SP)	
00000000G	00	00000000G	8F	DD 00092	PUSHL	#CNF\$_LINK	
			03	FB 00098	CALLS	#3, LTB\$SIGNAL	
			52	DD 0009F	PUSHL	R2	0537
0000V	CF		01	FB 000A1	CALLS	#1, CNF\$CLOSE_REQUEST_LINK	
				04 000A6	RET		0535
			52	DD 000A7	PUSHL	R2	0542
0000V	CF		01	FB 000A9	CALLS	#1, CNF\$SOLICIT_REQUEST	
			04	000AE	RET		0544

; Routine Size: 175 bytes, Routine Base: \$CODE\$ + 010A

```
364 0545 1 %SBTTL 'CNF$CLOSE_REQUEST_LINK'
365 0546 1 GLOBAL ROUTINE CNF$CLOSE_REQUEST_LINK (IRB): NOVALUE =
366 0547 1
367 0548 1 ---
368 0549 1
369 0550 1     Close the logical link for incoming request records.
370 0551 1
371 0552 1     Inputs:
372 0553 1
373 0554 1         irb = Address of incoming request block
374 0555 1
375 0556 1     Outputs:
376 0557 1
377 0558 1         None
378 0559 1
379 0560 1     Value:
380 0561 1         Signal any errors
381 0562 1     ---
382 0563 1
383 0564 2 BEGIN
384 0565 2
385 0566 2 MAP
386 0567 2     IRB:          REF BBLOCK;          ! Address of incoming request channel
387 0568 2
388 0569 2 LOCAL
389 0570 2     FREE_BNR : REF BBLOCK,
390 0571 2     LENGTH,
391 0572 2     STATUS;
392 0573 2
393 0574 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
394 0575 2     $DESCRIPTOR ('CNF$CLOSE_REQUEST_LINK'));
395 0576 2
396 0577 2 IF .IRB [IRB$W_CHAN] NEQ 0          ! If channel was assigned,
397 0578 2 THEN
398 0579 2     BEGIN
399 0580 2         STATUS = $DASSGN (CHAN = .IRB [IRB$W_CHAN]); ! Deassign network channel
400 0581 2
401 0582 2         IF NOT .STATUS          ! If error detected,
402 0583 2         THEN
403 0584 2             SIGNAL (CNF$_CHAN, 0, .STATUS); ! then report error
404 0585 2
405 0586 2         END;
406 0587 2 REMQUE (.IRB, STATUS);          ! Remove from linked list
407 0588 2
408 0589 2 !
409 0590 2 !     If there are Buffered NICE responses in the IRB, deallocate them.
410 0591 2 !
411 0592 2 FREE_BNR = .IRB [IRB$L_BNR_FLINK];
412 0593 2 WHILE .FREE_BNR NEQ IRB [IRB$L_BNR_FLINK] DO
413 0594 2     BEGIN
414 0595 2         REMQUE (.FREE_BNR, STATUS);
415 0596 2         EXECUTE (CNF$FREE_VM (FREE_BNR [BNR$W_LENGTH], FREE_BNR [BNR$L_ADDRESS] ));
416 0597 2         EXECUTE (CNF$FREE_VM (%REF (BNR$C_LENGTH), FREE_BNR ));
417 0598 2         FREE_BNR = .IRB [IRB$L_BNR_FLINK];
418 0599 2     END;
419 0600 2 LENGTH = .IRB [IRB$W_SIZE];          ! Get size of block
420 0601 2 EXECUTE (CNF$FREE_VM (LENGTH, IRB)); ! Deallocate storage
```


: 421
: 4220602 2
0603 1 END;

! End routine cnf\$close_request_link

```
.PSECT $SPLIT$,NOWRT,NOEXE,2

      45 43 41 52 54 001AC P.ABF: .ASCII \TRACE\
                                001B1 .BLKB 3
                                00000005 001B4 P.ABE: .LONG 5
                                00000000' 001B8 .ADDRESS P.ABF
45 55 51 45 52 5F 45 53 4F 4C 43 24 46 4E 43 001BC P.ABH: .ASCII \CNF$CLOSE_REQUEST_LINK\
4B 4E 49 4C 5F 54 53 001CB
                                001D2
                                00000016 001D4 P.ABG: .BLKB 2
                                00000000' 001D8 .LONG 22
                                .ADDRESS P.ABH

.EXTRN SYSSDASSGN

.PSECT $CODE$,NOWRT,2

      54 0000G CF 9E 00002 .ENTRY CNF$CLOSE_REQUEST_LINK, Save R2,R3,R4
      5E 0C C2 00007 MOVAB CNF$FREE_VM, R4
      0000' CF 9F 0000A SUBL2 #12, SP
      0000' CF 9F 0000E PUSHAB P.ABG
                                01 DD 00012 PUSHAB P.ABE
                                03 FB 00014 PUSHL #1
                                04 AC D0 00019 CALLS #3, CNF$TRACE
                                0A A2 B5 0001D MOVL IRB, R2
                                22 13 00020 TSTW 10(R2)
                                0A A2 32 00022 BEQL 1$
                                00 01 FB 00026 CVTWL 10(R2), -(SP)
                                53 50 D0 0002D CALLS #1, SYSSDASSGN
                                11 53 E8 00030 MOVL R0, STATUS
                                53 DD 00033 BLBS STATUS, 1$
                                7E D4 00035 PUSHL STATUS
                                8F DD 00037 CLRL -(SP)
                                03 FB 0003D PUSHL #CNF$ CHAN
                                62 OF 00044 1$: CALLS #3, LIB$SIGNAL
                                04 AC D0 00047 REMQUE (R2), STATUS
                                14 A0 D0 0004B MOVL IRB, R0
                                04 AE D1 00055 2$: MOVL 20(R0), FREE_BNR
                                2F 13 00059 ADDL3 #20, IRB, R2
                                04 BE OF 0005B CMPL FREE_BNR, R2
                                0C C1 0005F BEQL 3$
                                08 C1 00064 REMQUE @FREE_BNR, STATUS
                                02 FB 00069 ADDL3 #12, FREE_BNR, -(SP)
                                50 E9 0006C ADDL3 #8, FREE_BNR, -(SP)
                                04 AE 9F 0006F CALLS #2, CNF$FREE_VM
                                10 D0 00072 BLBC STATUS, 4$
                                04 AE 9F 00076 PUSHAB FREE_BNR
                                02 FB 00079 MOVL #16, -4(SP)
                                50 E9 0007C PUSHAB 4(SP)
                                14 C1 0007F CALLS #2, CNF$FREE_VM
                                62 D0 00084 BLBC STATUS, 4$
                                ADDL3 #20, IRB, R2
                                MOVL (R2), FREE_BNR
```

CNFINTRPT
V04-000

DECnet Ethernet Configurator Module
CNF\$CLOSE_REQUEST_LINK

I 10
16-Sep-1984 02:03:38
14-Sep-1984 12:49:50

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFINTRPT.B32;1

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			CB	11	00088		BRB	2\$	
	50	04	AC	D0	0008A	3\$:	MOVL	IRB, R0	
08	AE	08	A0	32	0008E		CVTWL	8(R0), LENGTH	
		04	AC	9F	00093		PUSHAB	IRB	
		0C	AE	9F	00096		PUSHAB	LENGTH	
	64		02	FB	00099		CALLS	#2, CNF\$FREE_VM	
			04	0009C	4\$:		RET		

: 0593
: 0600
: 0601
: 0603

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 01B9

CN
VO


```
: 424 0604 1 %SBTTL 'shutdown'
: 425 0605 1 ROUTINE SHUTDOWN: NOVALUE =
: 426 0606 1
: 427 0607 1 ---
: 428 0608 1
: 429 0609 1 This routine is called when the network is shutting down to
: 430 0610 1 gracefully close all incoming links so that NICONFIG goes away quietly.
: 431 0611 1
: 432 0612 1 Inputs:
: 433 0613 1
: 434 0614 1 None
: 435 0615 1
: 436 0616 1 Outputs:
: 437 0617 1
: 438 0618 1 None
: 439 0619 1
: 440 0620 1 Effect:
: 441 0621 1
: 442 0622 1 Disabling all surveillance will cause NICONFIG to terminate
: 443 0623 1 ---
: 444 0624 1
: 445 0625 2 BEGIN
: 446 0626 2
: 447 0627 2 LOCAL
: 448 0628 2 PTR: REF BBLOCK, ! Pointer to irb block
: 449 0629 2 NEXT_PTR;
: 450 0630 2
: 451 0631 2 PTR = .CNF$GQ_IRBLST; ! Start at first link context block
: 452 0632 2 WHILE .PTR NEQ CNF$GQ_IRBLST ! Until end of linked list,
: 453 0633 2 DO
: 454 0634 3 BEGIN
: 455 0635 3 NEXT_PTR = .PTR [IRB$L_LINK];
: 456 0636 3 CNF$CLOSE_REQUEST_LINK(.PTR); ! Abort the incoming link
: 457 0637 3 PTR = .NEXT_PTR; ! and link to next in chain
: 458 0638 3 END;
: 459 0639 2
: 460 0640 2 PTR = .CNF$GQ_CIRSURLST; ! Start at first circuit block
: 461 0641 2 WHILE .PTR NEQ CNF$GQ_CIRSURLST ! Until end of linked list,
: 462 0642 2 DO
: 463 0643 3 BEGIN
: 464 0644 3 CNF$DISABLE_SURVEIL (.PTR); ! and delete the circuit
: 465 0645 3 PTR = .PTR [CIR$L_LINK]; ! Link to next one
: 466 0646 3 END;
: 467 0647 2
: 468 0648 2 CNF$B_SURVEILLANCE_SET = FALSE; ! So it will die quietly
: 469 0649 2
: 470 0650 1 END; ! End routine shutdown
```

000C 00000 SHUTDOWN:

52	0000G	CF	D0	00002	1\$:	.WORD	Save R2,R3	: 0605
50	0000G	CF	9E	00007		MOVL	CNF\$GQ_IRBLST, PTR	: 0631
50		52	D1	0000C		MOVAB	CNF\$GQ_IRBLST, R0	: 0632
						CMPL	PTR, R0	:

CNFINTRPT
V04-000

DECnet Ethernet Configurator Module
shutdown

K 10
16-Sep-1984 02:03:38
14-Sep-1984 12:49:50

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFINTRPT.B32;1

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	53		0F 13 0000F	BEQL	2\$		
			62 D0 00011	MOVL	(PTR), NEXT_PTR	:	0635
			52 DD 00014	PUSHL	PTR	:	0636
FF48	CF		01 FB 00016	CALLS	#1, CNF\$CLOSE_REQUEST_LINK	:	
	52		53 D0 0001B	MOVL	NEXT_PTR, PTR	:	0637
			E7 11 0001E	BRB	1\$:	0632
	52	0000G	CF D0 00020	MOVL	CNF\$GQ_CIRSURLST, PTR	:	0640
	50	0000G	CF 9E 00025	MOVAB	CNF\$GQ_CIRSURLST, R0	:	0641
	50		52 D1 0002A	CMPL	PTR, R0	:	
			0C 13 0002D	BEQL	4\$:	
			52 DD 0002F	PUSHL	PTR	:	0644
0000G	CF		01 FB 00031	CALLS	#1, CNF\$DISABLE_SURVEIL	:	
	52		62 D0 00036	MOVL	(PTR), PTR	:	0645
			EA 11 00039	BRB	3\$:	0641
		0000G	CF D4 0003B	CLRL	CNF\$B_SURVEILLANCE_SET	:	0648
			04 0003F	RET		:	0650

; Routine Size: 64 bytes, Routine Base: \$CODE\$ + 0256

CN
VO


```

472 0651 1 %SBTTL 'CNF$SOLICIT_REQUEST'
473 0652 1 GLOBAL ROUTINE CNF$SOLICIT_REQUEST (irb): NOVALUE =
474 0653 1
475 0654 1 ---
476 0655 1
477 0656 1 This routine is called to obtain requests from the incoming
478 0657 1 logical link. Each incoming request is immediately queued
479 0658 1 to the disposal queue for the appropriate action.
480 0659 1 It is first called directly by OPEN_REQUEST_LINK which is executing
481 0660 1 off the work queue, and thereafter calls are placed on the work queue
482 0661 1 by the AST routine, REQUEST_RECEIVED.
483 0662 1
484 0663 1 Inputs:
485 0664 1
486 0665 1 irb = Address of incoming request block
487 0666 1
488 0667 1 Outputs:
489 0668 1
490 0669 1 None
491 0670 1 ---
492 0671 1
493 0672 2 BEGIN
494 0673 2
495 0674 2 MAP
496 0675 2 IRB: REF BBLOCK; ! Address of incoming request block
497 0676 2
498 0677 2 LOCAL
499 0678 2 STATUS;
500 0679 2
501 0680 2 CNF$TRACE (DBG$C TRACE, $DESCRIPTOR('TRACE'),
502 0681 2 $DESCRIPTOR('cnf$solicit_request'));
503 0682 2
504 P 0683 2 STATUS = $QIO(FUNC = IOS$READVBLK, ! Get request from incoming link
505 P 0684 2 CHAN = .IRB [IRB$W_CHAN],
506 P 0685 2 EFN = CNF$C ASYNCH-EFN,
507 P 0686 2 IOSB = IRB [IRB$W_IOSB], ! Address of I/O status block
508 P 0687 2 ASTADR = REQUEST_RECEIVED, ! Address of completion routine
509 P 0688 2 ASTPRM = .IRB, ! Giving irb as routine parameter
510 P 0689 2 P1 = IRB [IRB$T_REQUEST], ! Address of request buffer
511 0690 2 P2 = IRB$C_MAXRQSTLEN); ! Length of request buffer
512 0691 2
513 0692 2 IF NOT .STATUS ! If unsuccessful
514 0693 2 THEN
515 0694 3 BEGIN ! Don't signal a fatal error just because
516 0695 3 IF (.STATUS NEQ SSS_LINKABORT) AND ! the partner went away.
517 0696 3 (.STATUS NEQ SSS_LINKEXIT)
518 0697 3 THEN
519 0698 3 SIGNAL (CNF$_LINK, 0, .STATUS); ! then report error
520 0699 3
521 0700 3 WKQ$ADD WORK ITEM( CNF$CLOSE_REQUEST_LINK, .IRB);
522 0701 3 CNF$TRACE (DBG$C TRACE, $DESCRIPTOR('TRACE'),
523 0702 3 $DESCRIPTOR('cnf$solicit_request %CNF$CLOSE_REQUEST_LINK'));
524 0703 3 END;
525 0704 2
526 0705 1 END; ! End routine cnf$solicit_request
```

```
.PSECT $SPLIT$,NOWRT,NOEXE,2

45 43 41 52 54 001DC P.ABJ: .ASCII \TRACE\
001E1 .BLKB 3
00000005 001E4 P.ABI: .LONG 5
00000000 001E8 P.ABL: .ADDRESS P.ABJ
71 65 72 5F 74 69 63 69 6C 6F 73 24 66 6E 63 001EC P.ABL: .ASCII \cnf$solicit_request\
74 73 65 75 001FB
001FF .BLKB 1
00000013 00200 P.ABK: .LONG 19
00000000 00204 P.ABK: .ADDRESS P.ABL
45 43 41 52 54 00208 P.ABN: .ASCII \TRACE\
0020D .BLKB 3
00000005 00210 P.ABM: .LONG 5
00000000 00214 P.ABM: .ADDRESS P.ABN
71 65 72 5F 74 69 63 69 6C 6F 73 24 66 6E 63 00218 P.ABP: .ASCII \cnf$solicit_request %%CNF$CLOSE_REQUEST\
4F 4C 43 24 46 4E 43 25 25 20 20 74 73 65 75 00227
00236 .BLKB 3
4B 4E 49 4C 5F 00240 .ASCII \_LINK\
00245 .BLKB 3
0000002D 00248 P.ABO: .LONG 45
00000000 0024C P.ABO: .ADDRESS P.ABP

.PSECT $CODE$,NOWRT,2

0004 00000 .ENTRY CNF$SOLICIT_REQUEST, Save R2
0000' CF 9F 00002 PUSHAB P.ABK
0000' CF 9F 00006 PUSHAB P.ABI
0000G CF 01 DD 0000A PUSHL #1
03 FB 0000C CALLS #3, CNF$TRACE
7E 7C 00011 CLRQ -(SP)
7E 7C 00013 CLRQ -(SP)
7E FA 8F 9A 00015 MOVZBL #250, -(SP)
52 04 AC D0 00019 MOVL IRB, R2
65 A2 9F 0001D PUSHAB 101(R2)
52 DD 00020 PUSHL R2
0000V CF 9F 00022 PUSHAB REQUEST_RECEIVED
0C A2 9F 00026 PUSHAB 12(R2)
31 DD 00029 PUSHL #49
7E 0A A2 32 0002B CVTWL 10(R2), -(SP)
00000000G 00 00000000G 8F DD 0002F PUSHL #CNF$C_ASYNC_EFN
0C FB 00035 CALLS #12, SYS$QIO
000020E4 3D 50 E8 0003C BLBS STATUS, 2$
000020F4 8F 50 D1 0003F CMPL STATUS, #8420
1A 13 00046 BEQL 1$
50 D1 00048 CMPL STATUS, #8436
11 13 0004F BEQL 1$
50 DD 00051 PUSHL STATUS
7E D4 00053 CLRL -(SP)
00000000G 00 00000000G 8F DD 00055 PUSHL #CNF$ LINK
03 FB 0005B CALLS #3, LIB$SIGNAL
52 DD 00062 1$: PUSHL R2
FEBB CF 9F 00064 PUSHAB CNF$CLOSE_REQUEST LINK
0000G CF 02 FB 00068 CALLS #2, WKQ$ADD_WORK_ITEM
```


CNFINTRPT
V04-000

DECnet Ethernet Configurator Module
CNF\$SOLICIT_REQUEST

N 10
16-Sep-1984 02:03:38
14-Sep-1984 12:49:50

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[NICNF.SRC]CNFINTRPT.B32;1

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0000'	CF	9F	0006D	PUSHAB	P.ABO
0000'	CF	9F	00071	PUSHAB	P.ABM
	01	DD	00075	PUSHL	#1
0000G	CF	03	FB 00077	CALLS	#3, CNF\$TRACE
		04	0007C 2\$:	RET	

: 0702
: 0701
:
: 0705

; Routine Size: 125 bytes, Routine Base: \$CODE\$ + 0296

```

528 0706 1 %SBTTL 'request_received'
529 0707 1 ROUTINE REQUEST_RECEIVED (irb): NOVALUE =
530 0708 1
531 0709 1 ---
532 0710 1
533 0711 1 This AST routine is called when a new request has come
534 0712 1 in over the logical link. The request is queued to the
535 0713 1 work queue.
536 0714 1
537 0715 1 Inputs:
538 0716 1
539 0717 1 irb = Address of incoming request block
540 0718 1
541 0719 1 Outputs:
542 0720 1
543 0721 1 None
544 0722 1 ---
545 0723 1
546 0724 2 BEGIN
547 0725 2
548 0726 2 MAP
549 0727 2 IRB: REF BBLOCK; ! Address of incoming request block
550 0728 2
551 0729 2 CNF$TRACE (DBG$C_TRACE, $DESCRIPTOR('TRACE'),
552 0730 2 $DESCRIPTOR('request_received'));
553 0731 2
554 0732 2 IF NOT .IRB [IRB$W_IOSB] ! If error from QIO,
555 0733 2 THEN
556 0734 2 BEGIN
557 0735 2 IF (.IRB [IRB$W_IOSB] NEQ SS$ LINKABORT) AND
558 0736 2 (.IRB [IRB$W_IOSB] NEQ SS$ LINKEXIT)
559 0737 2 THEN
560 0738 2 SIGNAL (CNF$ LINK, 0, .IRB [IRB$W_IOSB]); ! then report the error
561 0739 2 WKQ$ADD_WORK_ITEM (CNF$CLOSE_REQUEST_LINK, .IRB); ! close the link until re-established
562 0740 2 RETURN;
563 0741 2 END;
564 0742 2
565 0743 2 !
566 0744 2 Log the contents of the incoming message
567 0745 2
568 0746 2 BEGIN
569 0747 2 LOCAL DATA_DSC : BBLOCK [DSC$C_S_BLN];
570 0748 2
571 0749 2 DATA_DSC = 0;
572 0750 2 DATA_DSC [DSC$W_LENGTH] = .IRB [IRB$W_IOSB1];
573 0751 2 DATA_DSC [DSC$A_POINTER] = IRB [IRB$T_REQUEST];
574 0752 2 CNF$LOG_DATA (DBG$C_NICE, $DESCRIPTOR('NICE received'), 0, DATA_DSC);
575 0753 2 END;
576 0754 2
577 0755 2 WKQ$ADD_WORK_ITEM (CNF$PROCESS_REQUEST, ! Queue request
578 0756 2 .IRB);
579 0757 2
580 0758 1 END; ! End routine request_received
```

.PSECT \$SPLITS,NOWRT,NOEXE,2


```

      45 43 41 52 54 00250 P.ABR: .ASCII \TRACE\
      00000005 00255 .BLKB 3
      00000000 00258 P.ABQ: .LONG 5
      00000000 0025C .ADDRESS P.ABR
65 76 69 65 63 65 72 5F 74 73 65 75 71 65 72 00260 P.ABT: .ASCII \request_received\
      00000010 0026F .LONG 16
      00000000 00270 P.ABS: .ADDRESS P.ABT
      00000000 00274 .ADDRESS P.ABT
      64 65 76 69 65 63 65 72 20 45 43 49 4E 00278 P.ABV: .ASCII \NICE received\
      0000000D 00285 .BLKB 3
      00000000 00288 P.ABU: .LONG 13
      00000000 0028C .ADDRESS P.ABV
```

.PSECT \$CODE\$,NOWRT,2

```

      0004 0000 REQUEST_RECEIVED:
      SE      08 C2 00002 .WORD Save R2
      0000'   CF 9F 00005 .SUBL2 #8, SP
      0000'   CF 9F 00009 .PUSHAB P.ABS
      01 DD 0000D .PUSHAB P.ABQ
      0000G   03 FB 0000F .PUSHL #1
      52      04 AC D0 00014 .CALLS #3, CNF$TRACE
      2B      0C A2 E8 00018 .MOVL IRB, R2
      20E4    8F 0C A2 B1 0001C .BLBS 12(R2), 2$
      20F4    8F 0C A2 B1 00022 .CMPW 12(R2), #8420
      7E      0C 1B 13 00024 .BEQL 1$
      7E      0C 13 13 0002A .CMPW 12(R2), #8436
      7E      0C A2 32 0002C .BEQL 1$
      7E      0C A2 32 0002C .CMTWL 12(R2), -(SP)
      00000000G 00 00000000G 7E D4 00030 .CLRL -(SP)
      00000000G 00 00000000G 8F DD 00032 .PUSHL #CNF$ LINK
      FE61     CF 9F 00041 .CALLS #3, LTB$SIGNAL
      20      11 00045 .PUSHL R2
      6E      D4 00047 1$: .PUSHAB CNF$CLOSE_REQUEST_LINK
      04 6E    0E A2 B0 00049 2$: .BRB 3$
      AE      65 A2 9E 0004D .CLRL DATA_DSC
      5E      DD 00052 .MOVW 14(R2), DATA_DSC
      7E      D4 00054 .MOVAB 101(R2), DATA_DSC+4
      0000'   CF 9F 00056 .PUSHL SP
      7E      D4 0005A .CLRL -(SP)
      0000G   CF 04 FB 0005C .PUSHAB P.ABU
      52      DD 00061 .CLRL -(SP)
      0000G   CF 02 FB 00063 3$: .CALLS #4, CNF$LOG_DATA
      04      04 0006C .PUSHL R2
      0000G   CF 02 FB 00067 .PUSHAB CNF$PROCESS_REQUEST
      04      04 0006C .CALLS #2, WKQ$ADD_WORK_ITEM
      0000G   CF 02 FB 00067 .RET
```

; Routine Size: 109 bytes, Routine Base: \$CODE\$ + 0313

CNFINTRPT
V04-000

DECnet Ethernet Configurator Module
request_received

D 11
16-Sep-1984 02:03:38
14-Sep-1984 12:49:50

VAX-11 Bliss-32 V4.0-742
[NICNF.SRC]CNFINTRPT.B32;1

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: 582
: 583
0759 1 END
0760 0 ELUDOM

! End of module CNFINTRPT

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	656	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	896	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	16	0	581	00:01.0
-\$255\$DUA28:[SHRLIB]NET.L32;1	1279	0	0	63	00:00.9
-\$255\$DUA28:[SHRLIB]NMALIBRY.L32;1	887	0	0	47	00:00.8

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CNFINTRPT/OBJ=OBJ\$:CNFINTRPT MSRC\$:CNFINTRPT/UPDATE=(ENH\$:CNFINTRPT)

: Size: 896 code + 664 data bytes
: Run Time: 00:19.2
: Elapsed Time: 00:41.8
: Lines/CPU Min: 2370
: Lexemes/CPU-Min: 20292
: Memory Used: 116 pages
: Compilation Complete

0279 AH-BT13A-SE
VAX/VMS V4.0

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